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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,190	07/31/2003	Ken L. Chang	K35A1300	3170

35219 7590 10/27/2005

WESTERN DIGITAL TECHNOLOGIES, INC.  
ATTN: SANDRA GENUA  
20511 LAKE FOREST DR.  
E-118G  
LAKE FOREST, CA 92630

EXAMINER

BLOUIN, MARK S

ART UNIT

PAPER NUMBER

2653

DATE MAILED: 10/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<p align="center"><b>Office Action Summary</b></p>	<b>Application No.</b> 10/633,190	<b>Applicant(s)</b> CHANG ET AL.	
	<b>Examiner</b> Mark Blouin	<b>Art Unit</b> 2653	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-26 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some    \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____   |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date ____  | 6) <input type="checkbox"/> Other: ____                                     |

### Detailed Action

#### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Chew (USPN 6,636,383).

3. Regarding Claims 1,8,15,22, and 24, Chew shows (Figs. 3-7), a disk drive, comprising a disk, a head stack assembly for reading and writing to the disk, the head stack assembly (Col 1, lines 38-49) comprising an actuator arm assembly stamped from a single flat sheet of material (Col 2, lines 12-16) and comprising a first actuator arm (6) portion defining a first latch portion (62), a second actuator arm portion (30) defining a second latch portion (14) configured to latch with the first latch portion, an actuator arm-joining portion integrally joining the first actuator arm portion to the second actuator arm portion, and a first head gimbal assembly (28) coupled to the actuator arm assembly, and a second head gimbal assembly (52) coupled to the second actuator arm portion.

4. Regarding Claims 2,10, and 17, Chew shows (Figs. 3-7), the disk drive wherein the actuator arm assembly is configured to pivot about a pivot axis and wherein the

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actuator arm-joining portion (98) is configured to bend into an orientation that is substantially parallel to the pivot axis.

5. Regarding Claims 3,11, and 18, Chew shows (Figs. 3-7), the disk drive, wherein the actuator arm assembly is configured to pivot about a pivot axis and wherein the first latch portion is configured to bend into an orientation that is substantially parallel to the pivot axis.

6. Regarding Claims 4,12, and 19, Chew shows (Figs. 3-7), the head stack assembly, wherein the actuator arm assembly is configured to pivot about a pivot axis and wherein both the actuator arm-joining portion (98) and the first latch portion (Fig. 9 shows latch portion (62) parallel to the pivot axis) are configured to bend into orientations that are substantially parallel to the pivot axis.

7. Regarding Claims 5,13, and 20, Chew shows (Figs. 3-7), the actuator arm assembly, wherein the first actuator arm portion (6) includes a first surface defined by a thickness and a length of the first actuator arm portion and wherein the second actuator arm portion (30) includes a second surface defined by a thickness and a length of the second actuator arm portion and wherein prior to bending, the first surface faces and is parallel to the second surface.

8. Regarding Claims 6,14,21,25, and 26, Chew shows (Figs. 3-7), the actuator arm, wherein the first actuator arm portion (6) defines a first surface that defines a first through bore (10), the second actuator arm portion (30) defines a second surface that defines a second through bore (34) that is configured to align with the first through bore, and the first and second bores are fitted with a collar (Col 8, lines 57-65) to stiffen ( the inter connection would inherently stiffen the structure) the actuator arm assembly.

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9. Regarding Claim 7 and 23, Chew shows (Figs. 3-7), the actuator arm assembly, wherein the actuator arm-joining portion (98) and the first latch portion (62) are configured to bend such that a major surface of the first actuator arm portion faces and is substantially parallel to a major surface of the second actuator arm portion.

*Conclusion*

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is (571) 272-7583. The examiner can normally be reached M-F, 6:00 am – 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful the examiner's supervisor, William Korzuch can be reached at (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for regular and After Final communications.

Any inquiry of general nature or relating to the status of application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.



Mark Blouin  
Patent Examiner  
Art Unit 2653  
October 19, 2005

A. J. HEINZ  
PRIMARY EXAMINER  
GROUP 2500

